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ISE Physics of Everyday Phenomena - Juliet Brosing 2021-01-12

College Physics (With Physicsnow) - Raymond A. Serway 2005-02-01
This is the Loose-leaf version offered through the Alternative Select - Freedom Titles program. Please contact your Custom Editor to order and for additional details.

A First Course in Mathematical Physics - Colm T. Whelan 2016-03-15
The book assumes next to no prior knowledge of the topic. The first part introduces the core mathematics, always in conjunction with the physical context. In the second part of the book, a series of examples showcases some of the more conceptually advanced areas of physics, the presentation of which draws on the developments in the first part. A large number of problems helps students to hone their skills in using the presented mathematical methods. Solutions to the problems are available to instructors on an associated password-protected website for lecturers.

Fundamentals of Physics - David Halliday 2010-03-15
This book arms engineers with the tools to apply key physics concepts in the field. A number of the key figures in the new edition are revised to provide a more inviting and informative treatment. The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas. Material from *The Flying Circus* is incorporated into the chapter opener puzzlers, sample problems, examples and end-of-chapter problems to make the subject more engaging. Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read. Sample Problems also demonstrate how engineers can solve problems with reasoned solutions. INCLUDES PARTS 1-4 PART 5 IN FUNDAMENTALS OF PHYSICS, EXTENDED

College Physics - Raymond A. Serway 2003
This 5" by 7" paperback is a section-by-section capsule of the textbook that provides a handy guide for looking up important concepts, equations, and problem-solving hints.

Energy and Development - Frauke Urban 2019-10-21
This book explores the complex relationship between energy and development and discusses the core issues and concepts surrounding this growing area of research and policy. In the field of energy and development, the world faces two major challenges: (1) Providing energy access to the roughly one billion people worldwide who do not have access to electricity and the nearly three billion people worldwide who do not have access to clean cooking fuels; (2) achieving socioeconomic development while limiting global atmospheric temperature increases to 2 degrees Celsius to mitigate climate change. Taking stock of progress, Frauke Urban explores the key issues surrounding these goals and addresses the policy responses aimed at ending energy poverty and achieving sustainable development. She outlines various options for delivering energy access, analyses past and prospective energy transitions and examines the social, environmental, economic and technological implications of these possibilities. Taking a holistic and multi-disciplinary approach and containing useful teaching resources, *Energy and Development* provides a comprehensive overview of this complex field of study. This book will be a great resource for postgraduate and undergraduate students, scholars, practitioners and policymakers working in the fields of energy studies, international development, environmental studies, industrial engineering, as well as social sciences that relate to energy and development.

Physical Science - Bill W. Tillery 2006-05
Serving as an introduction to the fundamental behavior of matter and energy, this seventh edition is intended to serve the needs of non-science majors. It offers students complete coverage of the physical sciences. It can also serve as a text in a one-semester physics and chemistry course.

Numerical Analysis - Richard L. Burden 2010-08-09

This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Physics for Scientists and Engineers, Volume 2 - Raymond A. Serway 2013-01-01

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Physics - Raymond A. Serway 2012
Building upon Serway and Jewetta's solid foundation in the modern classic text, *Physics for Scientists and Engineers*, this first Asia-Pacific edition of *Physics* is a practical and engaging introduction to *Physics*. Using international and local case studies and worked examples to add to the concise language and high quality artwork, this new regional edition further engages students and highlights the relevance of this discipline to their learning and lives.

The Maritime Boundaries of the Indian Ocean Region - Vivian Louis Forbes 1995

Adopting an integrated, multidisciplinary approach to the political geography of the Indian Ocean, this study analyses the Law of the Sea, evaluates the national legislation of those Indian Ocean littoral states which have proclaimed their maritime limits over offshore waters, examines the numerous bilateral and trilateral agreements on continental shelf and seabed limits of the states in the region. It also previews the potential demarcations in the region of study. Apart from its well written text, perhaps the most important aspect of the work is the exceptional series of beautifully drawn maps and diagrams accompanied by detailed captions or commentaries, a unique collection worthy of publication on its own.

Relevant Acoustic Phonetics of L2 English - Ettien Koffi 2021-04-20
Intelligibility is the ultimate goal of human communication. However, measuring it objectively remained elusive until the 1940s when physicist Harvey Fletcher pioneered a psychoacoustic methodology for doing so. Another physicist, von Bekesy, demonstrated clinically that Fletcher's theory of Critical Bands was anchored in anatomical and auditory reality. Fletcher's and Bekesy's approach to intelligibility has revolutionized contemporary understanding of the processes involved in encoding and decoding speech signals. Their insights are applied in this book to account for the intelligibility of the pronunciation of 67 non-native speakers from the following language backgrounds -10 Arabic, 10 Japanese, 10 Korean, 10 Mandarin, 11 Serbian and Croatian "the Slavic Group," 6 Somali, and 10 Spanish speakers who read the Speech Accent Archive elicitation paragraph. Their pronunciation is analyzed instrumentally and compared and contrasted with that of 10 native speakers of General American English (GAE) who read the same

paragraph. The data-driven intelligibility analyses proposed in this book help answer the following questions: Can L2 speakers of English whose native language lacks a segment/segments or a suprasegment/suprasegments manage to produce it/them intelligibly? If they cannot, what segments or suprasegments do they use to substitute for it/them? Do the compensatory strategies used interfere with intelligibility? The findings reported in this book are based on nearly 12,000 measured speech tokens produced by all the participants. This includes some 2,000 vowels, more than 500 stop consonants, over 3,000 fricatives, nearly 1,200 nasals, about 1,500 approximants, a over 1,200 syllables onsets, as many as 800 syllable codas, more than 1,600 measurement of F0/pitch, and duration measurements of no fewer than 539 disyllabic words. These measurements are in keeping with Baken and Orlikoff (2000:3) and in accordance with widely accepted Just Noticeable Difference thresholds, and relative functional load calculations provided by Catforda (1987).

Photonics - Abdul Al-Azzawi 2017-12-19

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. An explosion of new materials, devices, and applications makes it more important than ever to stay current with the latest advances. Surveying the field from fundamental concepts to state-of-the-art developments, *Photonics: Principles and Practices* builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers. Providing self-contained coverage and using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. Coverage is divided into six broad sections, systematically working through light, optics, waves and diffraction, optical fibers, fiber optics testing, and laboratory safety. A complete glossary, useful appendices, and a thorough list of references round out the presentation. The text also includes a 16-page insert containing 28 full-color illustrations. Containing several topics presented for the first time in book form, *Photonics: Principles and Practices* is simply the most modern, comprehensive, and hands-on text in the field.

Towards an Adaptable Millimeter Wave Reflector - Gert Poesen 2009-10
Presenting the latest developments in telecommunication and millimeter technology, this reference explains how recent research should be used for creating adaptable designs and applications, and offers alternative telecommunication technology for achieving an adaptable millimeter wave reflector imaging system. A discussion of an adaptable reflector that can be integrated in a wave-imaging system to reduce noise is also included.

College Physics for AP® Courses - Irina Lyublinskaya 2017-08-14

The *College Physics for AP(R) Courses* text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

Quantum International Relations - James Der Derian 2022-05-03

The contributors to this volume are motivated by a common apprehension and a common hope. The apprehension was first voiced by Einstein, who lamented the inability of humanity, at the individual and social level, to keep up with the increased speed of technological change brought about by the quantum revolution. As quantum science and technology fast forward into the 21st century, the social sciences remain stuck in classical, 19th century ways of thinking. Can such a mechanistic model of the mind and society possibly help us manage the fully realized technological potential of the quantum? That's where the hope appears: that perhaps quantum is not just a physical science, but a human science too. In *Quantum International Relations*, James Der Derian and Alexander Wendt gather rising scholars and leading experts to make the case for quantum approaches to world politics. As a fundamental theory of reality and enabler of new technologies, quantum now touches everything, with the potential to revolutionize how we conduct diplomacy, wage war, and make wealth. Contributors present the core principles of quantum mechanics--entanglement, uncertainty, superposition, and the wave function--as significant catalysts and superior heuristics for an accelerating quantum future. Facing a reality which no longer corresponds to an outdated Newtonian worldview of states as billiard balls, individuals as rational actors or power as objective interest, Der Derian and Wendt issue an urgent call for a new human science of quantum International Relations. At the centenary of

the first quantum thought experiment in the 1920s, this book offers a diversity of explorations, speculations and approaches for understanding geopolitics in the 21st century.

Resources in Education - 1997

Feyerabend's Epistemological Anarchism - Mansoor Niaz 2020-01-27

This book argues that the traditional image of Feyerabend is erroneous and that, contrary to common belief, he was a great admirer of science. It shows how Feyerabend presented a vision of science that represented how science really works. Besides giving a theoretical framework based on Feyerabend's philosophy of science, the book offers criteria that can help readers to evaluate and understand research reported in important international science education journals, with respect to Feyerabend's epistemological anarchism. The book includes an evaluation of general chemistry and physics textbooks. Most science curricula and textbooks provide the following advice to students: Do not allow theories in contradiction with observations, and all scientific theories must be formulated inductively based on experimental facts. Feyerabend questioned this widely prevalent premise of science education in most parts of the world, and in contrast gave the following advice: Scientists can accept a hypothesis despite experimental evidence to the contrary and scientific theories are not always consistent with all the experimental data. No wonder Feyerabend became a controversial philosopher and was considered to be against rationalism and anti-science. Recent research in philosophy of science, however, has shown that most of Feyerabend's philosophical ideas are in agreement with recent trends in the 21st century. Of the 120 articles from science education journals, evaluated in this book only 9% recognized that Feyerabend was presenting a plurality of perspectives based on how science really works. Furthermore, it has been shown that Feyerabend could even be considered as a perspectival realist. Among other aspects, Feyerabend emphasized that in order to look for breakthroughs in science one does not have to be complacent about the truth of the theories but rather has to look for opportunities to "break rules" or "violate categories." Mansoor Niaz carefully analyses references to Feyerabend in the literature and displays the importance of Feyerabend's philosophy in analyzing, historical episodes. Niaz shows through this remarkable book a deep understanding to the essence of science. - Calvin Kalman, Concordia University, Canada
In this book Mansoor Niaz explores the antecedents, context and features of Feyerabend's work and offers a more-nuanced understanding, then reviews and considers its reception in the science education and philosophy of science literature. This is a valuable contribution to scholarship about Feyerabend, with the potential to inform further research as well as science education practice.- David Geelan, Griffith University, Australia

Guide to Reference Books, 9th Edition - Eugene Paul Sheehy 1980

Physical Optics - Abdul Al-Azzawi 2018-10-03

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. As the reality of all-optical systems comes into focus, it is more important than ever to stay current with the latest advances in the optics and components that enable photonics technology. Comprising chapters drawn from the author's highly anticipated book *Photonics: Principles and Practices*, *Physical Optics: Principles and Practices* offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through the principles of waves, diffraction, interference, diffraction gratings, interferometers, spectrometers, and several aspects of laser technology to build a thorough understanding of how to study and manipulate the behavior of light for various applications. In addition, it includes a four-page insert containing several full-color illustrations as well as a chapter on laboratory safety. Containing several topics presented for the first time in book form, *Physical Optics: Principles and Practices* is simply the most modern, detailed, and hands-on text in the field.

The Cumulative Book Index - 1922

Singapore National Bibliography - 1993

Processes and mechanisms of welding residual stress and distortion - Zhili Feng 2005-11-01

As a fabrication technology, welding presents a number of technical challenges to the designer, manufacturer, and end-user of the welded structures. Both weld residual stress and distortion can significantly impair the performance and reliability of the welded structures. They must be properly dealt with during design, fabrication, and in-service use of the welded structures. There have been many significant and exciting developments on the subject in the past ten to fifteen years.

Measurement techniques have been improved significantly. More importantly, the development of computational welding mechanics methods has been phenomenal. The progresses in the last decade or so have not only greatly expanded our fundamental understanding of the processes and mechanisms of residual stress and distortion during welding, but also have provided powerful tools to quantitatively determine the detailed residual stress and distortion information for a given welded structure. New techniques for effective residual stress and distortion mitigations and controls have also been applied in different industry sectors. *Processes and Mechanisms of Welding Residual Stress and Distortion* provides a comprehensive summary on the developments in the subject. It outlines theoretical treatments on heat transfer, solid mechanics and materials behavior that are essential for understanding and determining the welding residual stress and distortion. The approaches for computational methods and analysis methodology are described so that non specialists can follow them. There are chapters devoted to the discussion of various techniques for control and mitigation of residual stress and distortion, and residual stress and distortion results for various typical welded structures are provided. The second half of the book looks at case studies and practical solutions and provides insights into the techniques, challenges, limitations and future trends of each application. This book will not only be useful for advanced analysis of the subject, but also provide sufficient examples and practical solutions for welding engineers. With a panel of leading experts this authoritative book will be a valuable resource for welding engineers and designers as well as academics working in the fields of structural and mechanical engineering.

Physics - John D. Cutnell 2006-03-17

Improving the Game When it comes to teaching and learning physics, most pedagogical innovations were pioneered in Cutnell and Johnson's *Physics*--the number one algebra-based physics text for over a decade. With each new edition of *Physics*, Cutnell and Johnson have strived to improve the heart of the game--problem solving. Now in their new Seventh Edition, you can expect the same spirit of innovation that has made this text so successful. Here's how the Seventh Edition continues to improve the game! AMP Examples (Analyzing Multi-Concept Problems) These unique new example problems show students how to combine different physics concepts algebraically to solve more difficult problems. AMP examples visually map-out why the different algebraic steps are needed and how to do the steps. GO (Guided Online) Problems in WileyPLUS These new multipart, online tutorial-style problems lead students through the key steps of solving the problems. Student responses to each problem step are recorded in the grade book, so the instructor can evaluate whether the student really has mastered the material. WileyPLUS WileyPLUS provides the technology needed to create an environment where students can reach their full potential and experience the exhilaration of academic success. WileyPLUS gives students access to a complete online version of the text, study resources and problem-solving tutorials, and immediate feedback and context-sensitive help on assignments and quizzes. WileyPLUS gives instructors homework management tools, lecture presentation resources, an online grade book, and more. Visit www.wiley.com/college/wileyplus or contact your Wiley representative for more information on how to package WileyPLUS with this text.

Corrosion Resistance of Aluminum and Magnesium Alloys - Edward Ghali 2010-05-05

Valuable information on corrosion fundamentals and applications of aluminum and magnesium Aluminum and magnesium alloys are receiving increased attention due to their light weight, abundance, and resistance to corrosion. In particular, when used in automobile manufacturing, these alloys promise reduced car weights, lower fuel consumption, and resulting environmental benefits. Meeting the need for a single source on this subject, *Corrosion Resistance of Aluminum and Magnesium Alloys* gives scientists, engineers, and students a one-stop reference for understanding both the corrosion fundamentals and applications relevant to these important light metals. Written by a world

leader in the field, the text considers corrosion phenomena for the two metals in a systematic and parallel fashion. The coverage includes: The essentials of corrosion for aqueous, high temperature corrosion, and active-passive behavior of aluminum and magnesium alloys The performance and corrosion forms of aluminum alloys The performance and corrosion forms of magnesium alloys Corrosion prevention methods such as coatings for aluminum and magnesium Electrochemical methods of corrosion investigation and their application to aluminum and magnesium alloys Offering case studies and detailed references, *Corrosion Resistance of Aluminum and Magnesium Alloys* provides an essential, up-to-date resource for graduate-level study, as well as a working reference for professionals using aluminum, magnesium, and their alloys.

College Physics - Paul Peter Urone 1997-12

The Silicon Web - Michael G. Raymer 2009-06-23

The technology behind computers, fiber optics, and networks did not originate in the minds of engineers attempting to build an Internet. The Internet is a culmination of intellectual work by thousands of minds spanning hundreds of years. We have built concept upon concept and technology upon technology to arrive at where we are today, in a world constructed of silicon pathways and controlled by silicon processors. From computers to optical communications, *The Silicon Web: Physics for the Internet Age* explores the core principles of physics that underlie those technologies that continue to revolutionize our everyday lives. Designed for the nonscientist, this text requires no higher math or prior experience with physics. It starts with an introduction to physics, silicon, and the Internet and then details the basic physics principles at the core of the information technology revolution. A third part examines the quantum era, with in-depth discussion of digital memory and computers. The final part moves onto the Internet era, covering lasers, optical fibers, light amplification, and fiber-optic and wireless communication technologies. The relation between technology and daily life is so intertwined that it is impossible to fully understand modern human experience without having at least a basic understanding of the concepts and history behind modern technology, which continues to become more prevalent as well as more ubiquitous. Going beyond the technical, the book also looks at ways in which science has changed the course of history. It clarifies common misconceptions while offering insight on the social impacts of science with an emphasis on information technology. As a pioneering researcher in quantum mechanics of light, author Michael Raymer has made his own significant contributions to contemporary communications technology

Introducing the Effective Mass of Activated Complex and the Discussion on the Wave Function of this Instanton - Petr Ptáček 2018-07-18

Heterogeneous kinetics plays an important role in many scientific disciplines and industrial branches such as physical chemistry, materials science, chemical industry, ceramic industry, etc. Although many excellent books on theories and methods can be found, the aim of this book is to provide an unconventional insight into the heterogeneous kinetics and properties of the activated complex. The introduction of the effective mass of this instanton enables to calculate many other properties, such as the most probable speed of activated complex, the momentum, the energetic density, the mass flux, etc., and to define two quantum numbers of activated state, i.e., the activation energy and the momentum. The monograph is organized into three chapters. The first of them deals with a short historical background, which introduces the beginning of chemical kinetics in the historical context. The second chapter is dedicated to the transition state theory, and the third one explains the concept of effective mass and effective rate of activated state as well as other properties of activated complex.

Physical Properties of Materials, Third Edition - Mary Anne White 2018-10-12

Designed for advanced undergraduate students and as a useful reference book for materials researchers, *Physical Properties of Materials, Third Edition* establishes the principles that control the optical, thermal, electronic, magnetic, and mechanical properties of materials. Using an atomic and molecular approach, this introduction to materials science offers readers a wide-ranging survey of the field and a basis to understand future materials. The author incorporates comments on applications of materials science, extensive references to the contemporary and classic literature, and 350 end-of-chapter problems. In addition, unique tutorials allow students to apply the principles to understand applications, such as photocopying, magnetic devices, fiber optics, and more. This fully revised and updated Third Edition includes

new materials and processes, such as topological insulators, 3-D printing, and more information on nanomaterials. The new edition also now adds Learning Goals at the end of each chapter and a Glossary with more than 500 entries for quick reference.

Physics: Principles & Problems, Student Edition - McGraw-Hill Education 2016-06-17

Introduction to Physics - John D. Cutnell 2015-09-22

Cutnell and Johnson has been the Number one text in the algebra-based physics market for over 20 years. Over 250,000 students have used the book as the equipment they need to build their problem-solving confidence, push their limits, and be successful. The tenth edition continues to offer material to help the development of conceptual understanding, and show the relevance of physics to readers lives and future careers. Helps the reader to first identify the physics concepts, then associate the appropriate mathematical equations, and finally to work out an algebraic solution

Understanding Physics and Physical Chemistry Using Formal Graphs - Eric Vieil 2012-02-23

The subject of this book is truly original. By encoding of algebraic equations into graphs-originally a purely pedagogical technique-the exploration of physics and physical chemistry reveals common pictures through all disciplines. The hidden structure of the scientific formalism that appears is a source of astonishment and provides efficient simpl
The Physics of Everyday Phenomena - W. Thomas Griffith 2016

College Physics Volume 1 (Chs. 1-16) - Hugh D. Young 2011-01

For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. The Ninth Edition continues that tradition with new features that directly address the demands on today's student and today's classroom. A broad and thorough introduction to physics, this new edition maintains its highly respected, traditional approach while implementing some new solutions to student difficulties. Many ideas stemming from educational research help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. Math review has been expanded to encompass a full chapter, complete with end-of-chapter questions, and in each chapter biomedical applications and problems have been added along with a set of MCAT-style passage problems. Media resources have been strengthened and linked to the Pearson eText, MasteringPhysics®, and much more. This package contains: College Physics, Volume 1, Ninth Edition (which contains Chapters 1-16)

Transport of Information-Carriers in Semiconductors and Nanodevices - El-Saba, Muhammad 2017-03-31

Rapid developments in technology have led to enhanced electronic systems and applications. When utilized correctly, these can have significant impacts on communication and computer systems. Transport of Information-Carriers in Semiconductors and Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices. Including a range of perspectives on relevant topics such as charge carriers, semiclassical transport theory, and organic semiconductors, this is an ideal publication for engineers, researchers, academics, professionals, and practitioners interested in emerging developments on transport equations that govern information carriers.

Aircraft Control and Simulation - Brian L. Stevens 2015-10-02

Get a complete understanding of aircraft control and simulation Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems, Third Edition is a comprehensive guide to aircraft control and simulation. This updated text covers flight control systems, flight dynamics, aircraft modeling, and flight simulation from both classical design and modern perspectives, as well as two new chapters on the modeling, simulation, and adaptive control of unmanned aerial vehicles. With detailed examples, including relevant MATLAB calculations and FORTRAN codes, this approachable yet detailed reference also provides access to supplementary materials, including chapter problems and an

instructor's solution manual. Aircraft control, as a subject area, combines an understanding of aerodynamics with knowledge of the physical systems of an aircraft. The ability to analyze the performance of an aircraft both in the real world and in computer-simulated flight is essential to maintaining proper control and function of the aircraft. Keeping up with the skills necessary to perform this analysis is critical for you to thrive in the aircraft control field. Explore a steadily progressing list of topics, including equations of motion and aerodynamics, classical controls, and more advanced control methods Consider detailed control design examples using computer numerical tools and simulation examples Understand control design methods as they are applied to aircraft nonlinear math models Access updated content about unmanned aircraft (UAVs) Aircraft Control and Simulation: Dynamics, Controls Design, and Autonomous Systems, Third Edition is an essential reference for engineers and designers involved in the development of aircraft and aerospace systems and computer-based flight simulations, as well as upper-level undergraduate and graduate students studying mechanical and aerospace engineering.

Smart Maintenance for Human-Robot Interaction - Bo Xing 2017-09-08

This self-contained book, written by active researchers, presents up-to-date information on smart maintenance strategies for human-robot interaction (HRI) and the associated applications of novel search algorithms in a single volume, eliminating the need to consult scattered resources. Unlike other books, it addresses maintaining a smart HRI from three dimensions, namely, hardware, cyberware, and hybrid-asset management, covering problems encountered in each through a wide variety of representative examples and elaborated illustrations. Further, the diverse mathematical models and intelligent systems constructions make the book highly practical. It enables readers interested in maintenance, robotics, and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies. At the same time, the referenced literature can be used as a roadmap for conducting deeper researches.

Physics for Global Scientists and Engineers, Volume 2 - Raymond A. Serway 2016-10-01

This second edition of Serway's Physics For Global Scientists and Engineers is a practical and engaging introduction for students of calculus-based physics. Students love the Australian, Asia-Pacific and international case studies and worked examples, concise language and high-quality artwork, in two, easy-to-carry volumes. * NEW key topics in physics, such as the Higgs boson, engage students and keep them interested * NEW Maths icons highlight mathematical concepts in the text and direct students to the relevant information in the Maths Appendix * NEW Index of Symbols provides students with a quick reference for the symbols used throughout the book This volume (two) includes Electricity and magnetism, Light and optics, and Quantum physics. Volume one covers Mechanics, Mechanical properties of solids and fluids, Oscillations and mechanical waves, and Thermodynamics.

College Physics, Global Edition - Hugh D Young 2016-02-10

For courses in College Physics. Bringing the best of physics education research to a trusted and classic text For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. New coauthors Phil Adams and Ray Chastain thoroughly revised the 10th Edition by incorporating the latest methods from educational research. New features help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Current Catalog - National Library of Medicine (U.S.) 1993
First multi-year cumulation covers six years: 1965-70.